THE INVENTION CLAIMED IS:

1. A method for treating viral diseases, comprising:

(a) inoculating *Lentinus edodes* fungus in a solid culture medium comprising 90 parts by weight of bagasse and 10 parts by weight of rice bran to yield proliferated mycelium;

(b) disentangling the solid culture medium containing the proliferated mycelium so that the amount of the bagasse of 12-in mesh is not more than 30% by weight and adding thereto 1 to 10 kg of water and 0.5 to 5 g of at least one enzyme selected from the group consisting of cellulase, protease and glucosidase based on 1 kg of the disentangled solid culture medium, while keeping the solid culture medium at 30 to 50°C, to give a bagasse-containing mixture;

(c) grinding and milling the bagasse-containing mixture so that the amount of the bagasse of 12-in mesh is not less than 70% by weight;

(d) heating the ground and milled bagasse-containing mixture to a temperature of 75 to 95°C to inactivate the enzyme;

(e) filtering the resultant mixture through a filter cloth of 50 to 120-in mesh to thereby obtain a pharmaceutical *Lentinus edodes* mycelium extract; and

(f) administering at least one effective dose of said extract to an animal or human afflicted with a viral disease.

2. The method according to claim 1 wherein the enzyme is cellulase.

3. The method according to claim 1 wherein said viral disease is human immunodeficiency virus.

4. The method according to claim 1 wherein said viral disease is Hepatitis B infection.

5. The method according to claim 1 wherein said viral disease is liver cancer.